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"The effects of government-industry R&D programs on private R&D: The Case of the Small Business Innovation Research Program." *RAND Journal of Economics*, Vol. 31, No. 1, Spring 2000.

"Surveying Surveys and Questioning Questions: Learning from World Bank Experience." With Lixin Colin Xu and Francesca Recanatini. World Bank Policy Research Working Paper No. 2307. March 2000.

"Executive Compensation and Firm Performance: Big Carrot, Small Stick." SIEPR Working Paper 99-17. March 2000.

Public Testimony

"The Role of Government in Promoting R&D." U.S. Senate Finance Committee, September 2011.

"An Economic Overview of the Implications for Online Video of the Proposed Comcast-NBC Transaction." FCC Public Hearing, July 2010.

"Reforming the Universal Service Fund High Cost Program." U.S. House of Representatives, Committee on Energy and Commerce, Subcommittee on Communications, Technology, and the Internet, March 2009.

"Broadband and the Digital Future." FCC en banc hearing, July 2008.

"The Costs of the Iraq War." U.S. Congress Joint Economic Committee, February 2008.

"Broadband and Small Business." U.S. Senate Committee on Small Business and Entrepreneurship, September 2007.

"Communications, Broadband and Competitiveness: How Does the U.S. Measure Up?" U.S. Senate Committee on Commerce, Science, and Transportation, April 2007.

Honors

Alfred P. Sloan Foundation Dissertation Fellowship, 1997 – 1998.

Phi Beta Kappa.

Omicron Delta Epsilon, International Economics Honor Society.

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Education

Stanford University, PhD, economics 1998

Stanford University, MA, economics, 1995

Washington University, BA *summa cum laude*, economics, mathematics (minor), 1992

Employment

Technology Policy Institute, President and Senior Fellow, September 2016 – present.

Technology Policy Institute, Senior Fellow and Vice President for Research, November 2007 – August 2016 (on leave Aug 2009 – Apr 2010)

Georgetown University, Adjunct Professor, Fall 2013.

U.S. Federal Communications Commission, National Broadband Task Force, Economics Director, August 2009 – April 2010

Stanford University, Lecturer, 2007 – 2009.

Progress & Freedom Foundation, Senior Fellow and Director of Communications Policy Studies, November 2006 – November 2007.

AEI-Brookings Joint Center for Regulatory Studies, Fellow 2003-2005, Senior Fellow 2005-2006.

American Enterprise Institute, Resident Scholar, 2003 – 2006.

The World Bank, Economist, 1998 – 2003.

Stanford University, Acting Assistant Professor of Public Policy and Visiting Researcher, Stanford Institute for Economics Policy Research, 1999-2001.

President's Council of Economic Advisers, Staff Economist, 1995-1996.

Other professional affiliations and activities

Senior Policy Scholar, Georgetown University Center for Business and Public Policy, 2007 – present.

Board of Directors, Technology Policy Research Conference, 2014 – present.

Faculty, Ronald Coase Institute, multiple years 2001 – present.

Program Committee member, Technology Policy Research Conference, 2010 – 2013.

Economics & International Trade Team Member, Obama-Biden Presidential Transition, November 2008 – January 2009.

Member, "Sufficient Evidence? Building Certifiably Dependable Systems," National Academies of Sciences Computer Science and Technology Board, 2003 – 2007.

Publications

"Is Blockchain Hype, Revolutionary, or Both? What We Need to Know." With Sarah Oh. In *A Research Agenda for New Institutional Economics*, Mary Shirley and Claude Menard, Eds. Forthcoming 2019.

"Brief of the Technology Policy Institute as Amicus Curiae in Support of Respondents, Federal Communications Commission and United States of America." In the United States Court of Appeals for the District Of Columbia Circuit, Mozilla Corporation, et al., Petitioners, v. Federal Communications Commission and United States Of America, Respondents. On Petition for Review of an Order of the Federal Communications Commission. With Thomas Lenard and Sarah Oh. October 2018

"The Educational Impact of Broadband Subsidies for Schools Under E-Rate." With Thomas W. Hazlett and Benjamin Schwall. *Economics of Innovation and New Technology*. Forthcoming, 2018.

"Distinguishing bandwidth and latency in households' willingness-to-pay for broadband internet speed." With Jeffrey Prince and Yu-Hsin Lu. *Information Economics and Policy*. July 2018.

"An Economic Analysis of the Proposed AT&T-Time Warner Merger." Law 360. March 6, 2018.

"Arts and Humanities are Key Parts of Ensuring Innovation in America." *Morning Consult*. February 6, 2017.

"Ten Tech Principles to Promote Innovation." With Thomas Lenard. Technology Policy Institute Working Paper. December 14, 2016.

"Comments filed with the Federal Communications Commission on Protecting the Privacy of Customers of Broadband and Other Telecommunications Services." October 17, 2016.

"Comments filed with the National Telecommunications and Information Administration and National Science Foundation on a Broadband Research Agenda." October 12, 2016.

"An Economic Analysis of the FCC's Privacy Notice of Proposed Rulemaking." With Thomas Lenard. May 25, 2016.

"Is There Really a Spectrum Crisis? Disentangling the regulatory, physical, and technological factors affecting spectrum license value." *Information Economics and Policy*, Vol. 35, May 2016, pp.7-29.

"Comments filed with the Federal Communications Commission in the Matter of Expanding Consumers' Video Navigation Choices; Commercial Availability of Navigation Devices," April 19, 2016.

"Learning from the FCC's Lifeline Broadband Pilot Projects." Technology Policy Institute Working Paper, March 23, 2016.

"For Broadband 'Zero Rating,' It Doesn't Have to be All or Nothing." *The Hill*, January 21, 2016.

"Lightsquared, LTE-U, and the Revenge of the Anti-Commons." *The Hill*, September 25, 2015.

"Comments Filed with the Federal Communications Commission on Lifeline and Link-Up Reform and Modernization." With John Mayo and Olga Ukhaneva. August 31, 2015.

"Has Uber Forced Taxi Drivers to Step Up Their Game?" *The Atlantic*, July 17, 2015.

"Free Markets and Rural Universal Service." With Gregory Rosston. *The Hill*, July 6, 2015.

"Should Absence of Harm be Sufficient for Merger Approval?" *The Hill*, May 28, 2015.

"An Opportunity to Make Transparency the Norm at the FCC." *The Hill*, March 6, 2015.

"FCC Effort to Regulate Internet Ignores History of Past Failures." *The Conversation*, February 25, 2015.

"Administrative Procedures, Bureaucracy, and Transparency: Why Does the FCC Vote on Secret Texts?", Technology Policy Institute Working Paper, February 2015.

"We Don't Need to Define Broadband." *The Hill*, February 2, 2015.

"New Study of Broadband Stimulus is Not So Independent." *The Hill*, January 23, 2015.

- "Will Title II Reduce Investment? Who's Asking?" *The Hill*, January 6, 2015.
- "Independence, the President and the FCC." *The Hill*, November 17, 2014.
- "Can the AT&T-DirecTV Merger End the Universal Service High-Cost Fund?" *The Hill*, August 4, 2014.
- "Undermining Transparency at the FCC." *The Hill*, June 19, 2014.
- "Social Media and Entrepreneurship: The Case of Food Trucks." With Corey Rhyan. Technology Policy Institute Working Paper. June 2014.
- "The Broadband Stimulus: A Rural Boondoggle and a Missed Opportunity." With Gregory Rosston. *I/S A Journal of Law and Policy*. Vol 9, No 3. 2014.
- "An Economic Analysis of the Proposed Comcast-Time Warner Cable Merger." Technology Policy Institute Working Paper. May 2014.
- "How do Attributes of Broadband Plans Affect Price?" With James Riso. *Review of Network Economics*, Vol. 13, Issue 1, March 2014.
- "The Real Benefits of Gigabit Broadband Have Nothing to do with Speed." Technology Policy Institute Working Paper. May 2013.
- "What Are We Not Doing When We're Online?" NBER Working Paper W19549. October 2013.
- "Two Cheers for the FCC's Mobility Fund Reverse Auction." *The Journal of Telecommunications and High Technology Law*, Vol. 11, Issue 2, 2013.
- "Unrepentant Policy Failure: Universal Service Subsidies in Voice and Broadband." With Thomas Hazlett. Arlington Economics. 2013.
- "Data Caps Aren't Perfect, But That's OK." *Ars Technica*. May 2012.
- "Is Xfinity TV Anticompetitive? Let the Courts, not Regulators, Decide." *Economists' Voice*. 2012.
- "Comments on the Verizon-SpectrumCo Deal." Comments filed with the FCC on WT Docket No. 12-4. February 2012.
- "From Network Externalities to Broadband Growth Externalities: A Bridge Not Yet Built." With John Mayo. *Review of Industrial Organization*, Vol 38, No. 2. March 2011.
- "The Path to Universal Broadband: Why We Should Grant Low-Income Subsidies, and Use Experiments and Auctions to Determine the Specifics." With Gregory Rosston. *Economists' Voice*. 2011.
- "Internet Usage Trends: Who Loses?" With Laura Martin. *Needham Insights*. November 15, 2011.
- "What Gets Measured Gets Done: Stop Focusing on Irrelevant Broadband Metrics." *Communications of the ACM*. Vol. 54, No. 11, November 2011.
- "Secondary Spectrum Markets as Complements to Incentive Auctions." With John Mayo. Georgetown Center for Business and Public Policy *Policy Vignette*. June 2011.

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"Residential and Business Broadband Prices, Part 1: An Empirical Analysis of Metering and Other Price Determinants." With James Riso. Technology Policy Institute Working Paper. November 2010.

"South Asian Telecommunications Development and the Role of Regional Cooperation." With Caroline Cecot. In *The Service Revolution in South Asia*, Ejaz Ghani, Ed. 2010.

"Net Neutrality, Unbundling, and their Effects on International Investment in Next-Generation Networks." With Stephanie Hausladen. *Review of Network Economics*. Vol. 8, Issue 1. 2009.

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"Measuring the Effectiveness of the Broadband Stimulus Plan." *Economists' Voice*. Vol. 6, Issue 6, May 2009.

"Comments of 71 Concerned Economists: Using Procurement Auctions to Allocate Broadband Stimulus Grants." Lead author with Paul Milgrom, Gregory Rosston, and Andrzej Skrzypacz. April 2009.

"Reverse Auctions and Universal Telecommunications Service: Lessons from Global Experience." *Federal Communications Law Journal*. Vol. 61, No. 2, March 2009.

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"The DTV Coupon Program: A Boon to Retailers, Not Consumers." Technology Policy Institute Policy Perspective. September 2008.

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Understanding International Broadband Comparisons. Technology Policy Institute Working Paper. May 2008.

"The Effects of Ownership and Benchmark Competition: An Empirical Analysis of U.S. Water Systems." With Katrina Kosec. *International Journal of Industrial Organization*. Vol. 26, Issue 1. January 2008.

"Broadband and Unbundling Regulations in OECD Countries." First version June 2006; revised January 2008.

"Has Deregulation Affected Investment in Special Access?" August 2007.

"Antitrust policy and Innovation: The Impacts of the National Cooperative Research and Production Act." June 2007.

"A Regulatory Play in Two Acts." *Regulation*. Vol. 30, No. 4. Winter 2007 – 2008.

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- "Has the Internet Increased Trade? Evidence from Developed and Developing Countries." With George Clarke. *Economic Inquiry*. Vol. 44, No. 3. July 2006.
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- "The Economic Costs of the War in Iraq." With Katrina Kosec. AEI-Brookings Joint Center Working Paper 05-19. September 2005.
- "When the Saints go Marching Out." *Baltimore Sun*, Nov 16, 2005.
- "Punting the Taxpayers." *New York Sun*, March 28, 2005.
- "City's WiFi Network Won't Close Digital Divide." *Philadelphia Inquirer*, February 17, 2005.
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- "Privatizing Monopolies in Developing Countries: The Real Effects of Exclusivity Periods in Telecommunications." *Journal of Regulatory Economics*, Vol. 26, No. 3, November 2004.
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- "A Suite Deal: Plans for D.C. Ballpark a Ripoff." *Washington Times*, October 28, 2004.
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"Do Science Parks Generate Regional Economic Growth?" AEI-Brookings Joint Center Working Paper 04-04. March 2004.

"Of Carts and Horses: Regulation and Privatization in Telecommunications." *Journal of Policy Reform*, Vol. 6, No. 4, 2003.

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"An Empirical Test of Geographic Knowledge Spillovers Using Geographic Information Systems and Firm-Level Data." *Regional Science and Urban Economics*, Vol. 31, No. 5, pp. 571-599. September 2001.

"An Econometric Analysis of Telecom Competition, Privatization, & Regulation in Africa and Latin America." *Journal of Industrial Economics*, Vol. 40, No. 1, March 2001.

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Honors

Alfred P. Sloan Foundation Dissertation Fellowship, 1997 – 1998.

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Omicron Delta Epsilon, International Economics Honor Society.

SUPPORTERS

- Amazon (<http://www.amazon.com>)
- AT&T (<http://www.att.com>)
- Charles Koch Foundation (<https://www.charleskochfoundation.org/>)
- Charter (<https://www.charter.com/browse/content/charter-home>)
- Cisco (<http://www.cisco.com/c/en/us/index.html>)
- Comcast (<http://www.comcast.com/>)
- Deutsche Telekom (<https://www.telekom.com/home>)
- EchoStar (<http://www.echostar.com/>)
- Experian (<http://www.experian.com/corporate/about-experian.html>)
- Facebook (<http://www.facebook.com>)
- Google (<http://www.google.com/corporate/>)
- Intel Corporation (<http://www.intel.com/>)
- Inter-American Development Bank (<https://www.iadb.org/en>)
- Intuit (http://about.intuit.com/about_intuit/profile/)
- Ligado Networks (<http://ligado.com/>)
- Microsoft (<http://www.microsoft.com>)
- Motion Picture Association of America, Inc. (<http://www.mpa.org>)
- NBCUniversal (<http://www.nbcuni.com/>)
- NCTA – The Internet & Television Association (<http://www.ncta.com/>)
- Needham & Company (http://www.needhamco.com/Home_new.aspx)
- Oath (<https://www.oath.com/>)
- Recording Industry Association of America (<http://www.riaa.com>)
- Time Warner, Inc. (<http://www.timewarner.com/>)
- T-Mobile (<http://www.t-mobile.com/>)
- Verizon (<http://www.verizon.com/>)
- The Walt Disney Company (<http://corporate.disney.go.com/>)